No. 619,762. Patented Feb. 21, 1899.

A. KISSINGER & W. C. MATTHIAS.

TOY.

(No Model.) (Application filed Dec. 27, 1897.)

Fig. 1

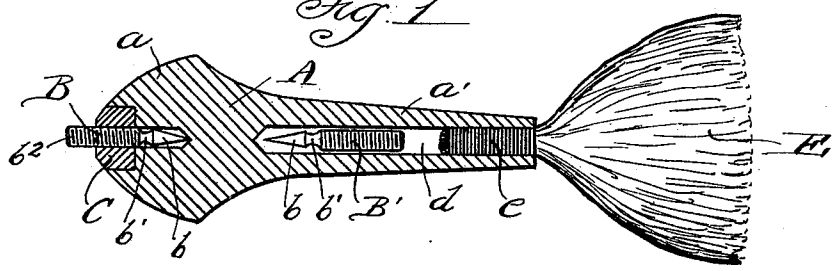
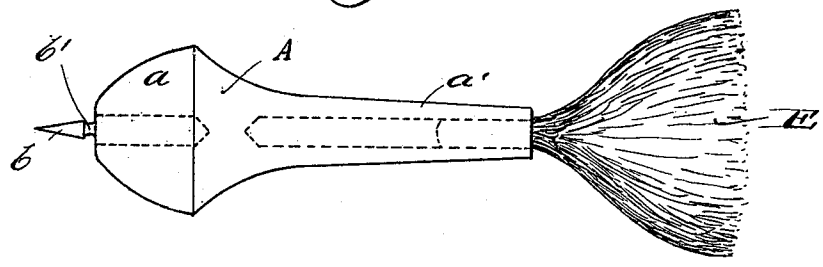


Fig. 2.



Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

AMOS KISSINGER AND WILLIAM C. MATTHIAS, OF READING, PENNSYLVANIA.

TOY.

SPECIFICATION forming part of Letters Patent No. 619,762, dated February 21, 1899.

Application filed December 27, 1897. Serial No. 663,456. (No model.)

To all whom it may concern:

Be it known that we, AMOS KISSINGER and WILLIAM C. MATTHIAS, citizens of the United States, residing at Reading, county of Berks, State of Pennsylvania, have invented certain Improvements in Toys, of which the following is a specification.

Our invention relates to an improved form of toy, which is fully described in connection with the accompanying drawings.

Figure 1 is a longitudinal sectional view of a toy embodying our invention. Fig. 2 is a full view of the same.

The class of toys to which our invention relates have been heretofore known as "darts." In our improved construction we employ a body portion A, which may be made of wood or any preferred material, such as aluminium. This is formed with a head portion *a* and with a shank portion *a'*.

B is a metal tip, one end of which (marked *b*) is pointed or cone-shaped and has a reduced cross-section *b'* just back of the conical point. The other end b^2 is blunt, and the main portion of the tip is preferably screw-threaded, as indicated. This tip is reversibly secured in the head *a*, so as to have either the blunt end b^2 protruding, as indicated in Fig. 1, or the pointed end *b*, as indicated in Fig. 2. As shown in Fig. 1, it is arranged to screw into a metal nut or socket C, which latter is tightly fitted in the head *a* and serves the additional purpose of weighting the latter, so as to more positively control the movement of the toy. The shank portion *a'* is preferably hollowed out its full length, as indicated, so as to serve a threefold purpose. The bore is sufficiently large to permit the removable tip B or an extra one B' to be placed therein for safe keeping, thus providing against possible loss or breakage. It is also adapted to receive the tightly-tied end *e* of a bunch of wool, feathers, or the like, the projecting loose portion E of which serves to keep the dart in a straight course when thrown. The tied end *e* of this bunch is a tight fit in the bore of the shank *a'*, thus serving to safely attach the bunch to the latter and to prevent the escape of the tip B', though it is forcibly removable when desired. The bore *d* also serves to further lighten the shank *a'*, thereby assisting the straight flight of the toy.

When our improved toy is carried in the pocket, for instance, the metal tip B should either be secured in the head *a*, with the blunt end only exposed, or it may be removed entirely from the head and carried in the hollow shank. When intended to stick in a target, the pointed end *b* is allowed to protrude, and in this case the reduced section *b'* serves to prevent the toy from rebounding and insures its sticking tightly where it strikes, the compressed material of the pierced target tending to close in at *b'*. In cases where the use of the point *b* is thought to be objectionable the tip is reversed, and the blunt end b^2 is allowed to protrude instead.

It will be readily understood that in either case the toy may be thrown in any preferred manner with certainty of following a straight course as directed and of striking squarely.

What we claim is—

1. A toy dart having a metal tip reversibly secured in the head thereof, one end of said tip being pointed and the other blunt, substantially as set forth.

2. A toy dart having a metal tip reversibly secured in the head thereof, one end of said tip being cone-shaped and having a reduced cross-section *b'*, and the other end being blunt, substantially as set forth.

3. A toy dart comprising a headed body with hollow shank, a socket-piece fixed in said head, a tip removably secured in said socket-piece and loosely insertible in said hollow shank, and a bunch of feathers or the like removably secured in said hollow shank substantially as set forth.

4. A toy dart comprising a body portion having a head *a* and a hollow shank *a'*, a socket-piece C fixed in said head, a tip B having one end blunt and the other sharp and adapted to reversibly engage said socket or loosely enter said hollow shank, and a bunch of feathers or the like removably secured in the hollow end of the shank substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

AMOS KISSINGER.
WILLIAM C. MATTHIAS.

Witnesses:
HOWARD F. KINSEY,
W. G. STEWART.